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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/898,957	07/03/2001	Luc Cremers	522-1748	9739
75	90 01/30/2004	EXAMINER		
Lee, Mann, Smith, McWilliams, Sweeney & Ohlson P. O. Box 2786 Chicago, IL 60690-2786			PHAN, THAI Q	
			ART UNIT	PAPER NUMBER
<i>•</i> ,			2128	5
			DATE MAILED: 01/30/2004	‡

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Applicati	on No	Applicant(s)			
Office Action Summary		09/898,9		CREMERS ET AL.			
		Examine		Art Unit			
		Thai Phai		2128			
Period f	The MAILING DATE of this communication or Reply	on appears on th	e cover sneet with the	correspondence address			
THE - External control	MORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICATI ensions of time may be available under the provisions of 37 Control of the communication of	ION. CFR 1.136(a). In no eviction. s, a reply within the starperiod will apply and we statute, cause the app	rent, however, may a reply be tutory minimum of thirty (30) d rill expire SIX (6) MONTHS fro olication to become ABANDON	timely filed ays will be considered timely. on the mailing date of this communication. NED (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) filed on	<u>03 July 2001</u> .					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.						
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	tion of Claims			•			
4)⊠	Claim(s) <u>1-15</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)[Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-15</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction a	and/or election r	equirement.				
Applicat	ion Papers						
9)[The specification is objected to by the Exa	aminer.					
10)	The drawing(s) filed on is/are: a)] accepted or b)) ☐ objected to by the	e Examiner.			
	Applicant may not request that any objection t	• • •		• •			
	Replacement drawing sheet(s) including the c						
11)	The oath or declaration is objected to by the	he Examiner. No	ote the attached Offic	e Action or form PTO-152.			
Priority	under 35 U.S.C. §§ 119 and 120						
* (13)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B See the attached detailed Office action for Acknowledgment is made of a claim for document as specific reference was included in the ST CFR 1.78. a) The translation of the foreign language Acknowledgment is made of a claim for document as made of a	ments have been ments have been priority documents a list of the certimestic priority under the first sentence provisional appressic priority under the priority	en received. en received in Applica ents have been receiv le 17.2(a)). ified copies not receiv nder 35 U.S.C. § 119 e of the specification of pplication has been re nder 35 U.S.C. §§ 12	ved in this National Stage ved. (e) (to a provisional application) or in an Application Data Sheet. eceived.			
r	eference was included in the first sentence	or the specifica	ation of in an Applicat	ion data sileet. 37 CFK 1.76.			
Attachmer				(DTO 440) B			
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449) Paper N			ry (PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

This Office Action is in response to patent application S/N: 09/898,957. Claims 1-15 are now pending.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

The drawings are object to because Fig. 11 fails to show block detail data and legends.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over US patent no. 6,407,548 B1, issued to Peter Dietz.

As per claim 1, Dietz discloses a method for modeling and designing an optimization of noise transmission over a gradient system with feature limitation very similar to the claimed invention. According to Dietz, the method includes steps:

Simulating wave energy source from monopole, omnidirectional wave energy source at a position remote form a body (Fig. 1, col. 4, lines 55-64),



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Computing a boundary oscillation amplitude of the wave generated by the source at the surface of the body (col. 4, line 55 to col. 5, line 24), and

Deriving from the oscillation amplitude the wave transfer function instead of the wave transfer vector as claimed.

Practitioner in the art at the time of the invention was made would have found the transfer function as derived above could imply the claimed transfer vector because the transfer function is derived from the radiated surface body which includes many points and such contributed points would contribute to form the transfer vector as claimed.

As per claims 2-3, Dietz discloses boundary element method as claimed.

As per claim 4, Dietz discloses an acoustic wave source (Summary of the Invention).

As per claims 5 and 6, Dietz discloses transfer function for different frequencies including intermediate frequency as claimed.

As per claim 7, Dietz discloses acoustic transfer function for noise source as claimed by projecting into location coordinates as claimed (Fig. 1).

As per claims 8-12, Dietz discloses such claimed limitation to compute the transfer function from gradient sources.

As per claim 13, Dietz discloses a computer system and method for modeling and designing an optimization of noise transmission over a gradient system with feature limitation very similar to the claimed invention. According to Dietz, the system includes means for performing steps of:

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Simulating wave energy source from monopole, omnidirectional wave energy source at a position remote form a body (Fig. 1, col. 4, lines 55-64),

Computing a boundary oscillation amplitude of the wave generated by the source at the surface of the body (col. 4, line 55 to col. 5, line 24), and

Deriving from the oscillation amplitude the wave transfer function instead of the wave transfer vector as claimed.

Practitioner in the art at the time of the invention was made would have found the transfer function as derived above could imply the claimed transfer vector because the transfer function is derived from the radiated surface body which includes many points and such radiated points source on the body surface would directly contribute to the transfer vector as claimed.

As per claims 14-15, Dietz discloses transfer functions for different frequency including the claimed intermediate frequency for various gradient sources (Fig. 1).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Thai Phan whose telephone number is 703-305-3812.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

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Thai Phan Jan. 25, 2004 .Unauphan Thai Phan Patent Examiner

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